Please revise the claims, as follows:

1. (Currently amended) A method for circuit modification of a microelectronic chip

comprising at least one conductor in an organic dielectric, in a manner so that a conductive

residue from said an ion-milling process does not contaminate said organic dielectric

sufficiently to electrically disrupt said circuit, said method comprising:

applying a protective inorganic surface layer on said organic dielectric;

forming a window in said protective inorganic surface layer to selectively expose an

underlying portion of said organic dielectric, said window located over an area that covers a

conductor to be modified by said ion-milling process;

etching said organic dielectric through said window to selectively remove a portion

of said organic dielectric adjacent to said conductor to provide a void space in said organic

dielectric adjacent to said conductor, thereby precluding a contamination of said organic

dielectric that would be sufficient to be disruptive to said circuit and that normally would

result if said ion milling were performed on said conductor without first forming said void;

and

performing said ion-milling process on said conductor to at least one of remove

conductive material from said conductor to open up an existing routing in said circuit and add

conductive material to said conductor to form a new routing within said circuit.

2. (Previously presented) The method in claim 1, wherein said ion-milling process done to

said conductor comprises at least one of:

Docket: FIS920000188US2

milling said conductor with a focused ion beam;

milling said conductor with a focused ion beam in the presence of a passivating

gas; and

depositing additional conductor material using an ion-assisted deposition.

3. (Original) The method in claim 1, wherein said etching of said organic dielectric

comprises a reactive ion etching.

4. (Previously presented) The method in claim 1, wherein said conductor comprises metal.

5. (Original) The method in claim 4, wherein said metal comprises copper.

6. (Original) The method in claim 1, wherein said protective inorganic surface layer

includes an inorganic layer which etches selectively to the organic dielectric.

7. (Previously presented) The method in claim 6, wherein said inorganic layer which etches

selectively to the organic dielectric comprises nitride.

8. (Original) The method in claim 1, wherein said window is formed by a focused ion beam.

9. (Withdrawn) The method in claim 1, wherein said window is formed by a mask/resist

process.

Docket: FIS920000188US2

10. (Original) The method in claim 3, wherein said reactive ion etching uses one of oxygen

and an oxygen compound.

11. (Previously presented) The method in claim 2, wherein said passivation gas comprises

xenon difluoride.

12. (Currently amended) A method of preparing an electronic chip for a modification

process on a conductor thereon, said method comprising:

depositing a protective inorganic surface layer onto an organic dielectric material

embedding a conductor that is to be modified by an ion-milling process to at least one of

remove conductive material of said conductor to open up a routing in a circuit of said chip

and add conductive material to said conductor to form a new routing in said circuit;

forming a window in said protective inorganic surface layer to selectively expose an

underlying portion of said organic dielectric material; and

etching said organic dielectric material through said window to selectively remove a

portion of said organic dielectric material adjacent to said conductor so that conductive

material from said ion-milling process does not leave a conductive residue in said organic

dielectric material as a result of said ion-milling process that would be sufficient to disrupt

said circuit.

13. (Original) The method of claim 12, wherein said etching comprises a reactive ion

etching.

14. (Currently amended) A method of manufacturing an electronic device having at least one layer of organic dielectric, said electronic device having at least one conductor in an organic dielectric to be modified by an ion-milling process during said manufacturing, said method comprising:

depositing a protective inorganic surface layer onto said at least one layer of organic dielectric;

forming at least one window in said protective inorganic surface layer to selectively expose an underlying portion of said organic dielectric; and

etching said organic dielectric in an area of said at least one window to selectively remove said organic dielectric adjacent to a conductor to be modified by said ion-milling process so that a conductive residue will not remain in said organic dielectric from said ionmilling process that would provide a sufficient contamination to disrupt an operation of said electronic device,

wherein said modification done by said ion-milling process comprises at least one of removing conductive material from said conductor to create an open circuit in said electronic device and adding conductive material to said conductor to create a new circuit routing in said electronic device.

- 15. (Original) The method of claim 14, wherein said etching comprises a reactive ion etching.
- 16. (Previously presented) The method of claim 1, wherein said at least one conductor to be modified and said organic dielectric to be selectively removed are buried below at least one

Docket: FIS920000188US2

upper layer and said method further comprises successively providing an opening in each of

said at least one upper layer.

17-33. (Canceled)

34. (Currently amended) The method of claim 1, wherein said conductor comprises a second

conductor an underlying a first conductor that at least partially covers said second conductor,

is said second conductor being exposed after having etched cut through at least a portion of at

least one upper conductor that covers said underlying conductor said first conductor.

35. (Previously presented) The method of claim 1, wherein said window for said etching is

sized so that said portion of said organic dielectric adjacent to said conductor that is etched

through said window comprises said organic dielectric adajcent to:

a top surface of said conductor facing said window, if any said organic dielectric

material exists on said top surface;

any side surfaces of said conductor having said organic dielectric material adjacent

thereto; and

a back surface of said conductor, if any said organic dielectric material exists adjacent

to said back surface.

36-37. (Canceled)

Docket: FIS920000188US2

38. (New) The method of claim 1, further comprising:

substantially refilling said void space using an insulative material.

39. (New) The method of claim 38, wherein said substantially refilling said void comprises

depositing SiO₂ into said void space.